

Author Index

- Aerts, C., s. Voisin, C. et al. 17
- Appel, D., Shim, C.: Comparative Effect of Epinephrine and Aminophylline in the Treatment of Asthma 243
- Arnoux, A., Stanislas-Leguern, G., Marsac, J., Chretien, J.: Immunocompetent Cells and Delayed Hypersensitivity Reaction in Sarcoidosis 137
- Bégin, R., s. Lemaire, I. et al. 323
- Bégin, R., s. Rola-Pleszczynski, M. et al. 91
- Boyle, D. W., s. Boyle, J. III 255
- Boyle, J. III, Mautone, A. J., Tipton, D. A., Siems, E. J., Boyle, D. W.: The Effect of the Minimal Deflation Pressure on Lung Mechanics in Isolated Rabbit Lungs 255
- Brendel, K., s. Kuttan, R. et al. 333
- Chretien, J., s. Arnoux, A. et al. 137
- Dalquen, P., s. Hasse, J. et al. 23
- Debreczeni, L., s. Hutás, I. et al. 153
- Denis, P., s. Pasquis, P. et al. 109
- D'Esopo, N. D., s. Mahler, D. A. et al. 163
- Duhamel, R. C., s. Kuttan, R. et al. 333
- Engle, M. J., s. Perelman, R. H. et al. 53
- Farrell, P. M., s. Perelman, R. H. et al. 53
- Ganeshanathan, M., s. Loke, J. et al. 35
- Garrard, C. S., s. Ónal, E. et al. 265
- Geddes, D. M., s. Pang, J. A. 231
- Gelb, A. W., Southorn, P., Rehder, K.: Effect of General Anaesthesia on Respiratory Function (Review) 187
- Gerstenhaber, B. J., s. Mahler, D. A. et al. 163
- Gordon, W. I., s. Horsfield, K. 211
- Grädel, E., s. Hasse, J. et al. 23
- Grizzanti, J. N., Knapp, A.: Diabetic Ketoacidosis and Invasive Aspergillosis 43
- Gross, N. J.: The Pathogenesis of Radiation-Induced Lung Damage 115
- Guilleminault, C., Korobkin, R., Winkle, R.: A Review of 50 Children with Obstructive Sleep Apnea Syndrome 275
- Hahtela, T., s. Mönkäre, S. et al. 145
- Hadházy, P., s. Hutás, I. et al. 153
- Hasse, J., Perruchoud, A., Dalquen, P., Herzog, H., Grädel, E.: Open Lung Biopsy in Diffuse Pulmonary Disease 23
- Heller, W. D., s. Toomes, H. et al. 27
- Hellot, M. F., s. Pasquis, P. et al. 109
- Herzog, H., s. Hasse, J. et al. 23
- Horsfield, K., Gordon, W. I.: Morphometry of Pulmonary Veins in Man 211
- Hutás, I., Hadházy, P., Debreczeni, L., Vizi, E. S.: Relaxation of Human Isolated Bronchial Smooth Muscle. Role of Prostacyclin and Prostaglandin $F_{2\alpha}$ in Muscle Tone 153
- Ikonen, M., s. Mönkäre, S. et al. 145
- Jacobson, K. W., s. Tipton, W. R. et al. 199
- Jaeger, M. J., s. Schlenker, E. H. 81
- Jenne, J. W.: A Critique of Dosing Strategies for Beta-2 Adrenergic Agents and Theophylline (Review) 295
- Knapp, A., s. Grizzanti, J. N. 43
- Korobkin, R., s. Guilleminault, C. et al. 275
- Kuttan, R., Spall, R. D., Duhamel, R. C., Sipes, I. G., Meezan, E., Brendel, K.: Preparation and Composition of Alveolar Extracellular Matrix and Incorporated Basement Membrane 333
- Lahoute, C., s. Voisin, C. et al. 17
- Laitinen, L. A., s. Mönkäre, S. et al. 145
- Lavietes, M. H., Rochester, D. F.: Assessment of Airway Function During Assisted Ventilation 219
- Lebas, J., s. Voisin, C. et al. 17
- Lefrançois, R., s. Pasquis, P. et al. 109
- Lemaire, I., Sirois, P., Rola-Pleszczynski, M., Massé, S., Bégin, R.: Early Biochemical Reactions in the Lung of Sheep Exposed to Asbestos: Evidence for Cyclic AMP Accumulation in Bronchoalveolar Lavage Fluids 323
- Loke, J., Ganeshanathan, M., Palm, C. R., Motoyama, E. K.: Site of Airway Obstruction in Asymptomatic Asthmatic Children 35
- Lopata, M., s. Ónal, E. et al. 265
- Mahler, D. A., Gerstenhaber, B. J., D'Esopo, N. D.: Air-Fluid Levels Within Lung Bullae Associated with Pneumonitis 163
- Marsac, J., s. Arnoux, A. et al. 137
- Massé, S., s. Lemaire, I. et al. 323
- Mautone, A. J., s. Boyle, J. III et al. 255
- McFadden, E. R. Jr.: An Analysis of Exercise as a Stimulus for the Production of Airway Obstruction (Review) 3
- Meezan, E., s. Kuttan, R. et al. 333
- Mertens, P.: Alveolar-Arterial PCO_2 Differences and Diffusion Limitation 101

- Mönkäre, S., Haahtela, T., Ikonen, M., Laitinen, L. A.: Bronchial Hyperreactivity to Inhaled Histamine in Patients with Farmer's Lung 145
- Morris, H. G., s. Tipton, W. R. et al. 199
- Motoyama, E. K., s. Loke, J. et al. 35
- Nelson, H. S., s. Tipton, W. R. et al. 199
- Önal, E., Lopata, M., Garrard, C. S.: Diaphragmatic EMG in Studies of Inspiratory "Off-Switch" Threshold in Humans 265
- Ostertag, H., s. Toomes, H. et al. 27
- Palm, C. R., s. Loke, J. et al. 35
- Pang, J. A., Geddes, D. M.: The Biochemical Properties of the Pulmonary Circulation (Review) 231
- Pasquis, P., Denis, P., Hellot, M. F., Lefrançois, R., Vargas, E.: Influence of Hemoglobin Concentration on Lung Diffusing Capacity for CO at High Altitude 109
- Perelman, R. H., Engle, M. J., Farrell, P. M.: Perspectives of Fetal Lung Development (Review) 53
- Perruchoud, A., s. Hasse, J. et al. 23
- Peslin, R., s. Teculescu, D. B. et al. 127
- Pino, J., s. Teculescu, D. B. et al. 127
- Rehder, K., s. Gelb, A. W. et al. 187
- Reichel, J., s. Schechter, A. 13
- Richardson, J. B.: Nonadrenergic Inhibitory Innervation of the Lung (Review) 315
- Robin, H., s. Voisin, C. et al. 17
- Robotham, J. L., s. Wise, R. A. et al. 175
- Rochester, D. F., s. Lavietes, M. H. 219
- Rola-Pleszczynski, M., Sirois, P., Bégin, R.: Cellular and Humoral Components of Bronchoalveolar Lavage in the Sheep 91
- Rola-Pleszczynski, M., s. Lemaire, I. et al. 323
- Schechter, A., Reichel, J.: Prolonged Survival in Bronchogenic Carcinoma Complicated by Superior Vena Cava Obstruction 13
- Schlenker, E. H., Jaeger, M. J.: Airway Responsiveness of Chronic Smokers to Increased Lung Volume and to a Bronchodilator 81
- Shim, C., s. Appel, D. 243
- Siems, E. J., s. Boyle, J. III 255
- Sipes, I. G., s. Kuttan, R. et al. 333
- Sirois, P., s. Lemaire, I. et al. 323
- Sirois, P., s. Rola-Pleszczynski, M. et al. 91
- Souhrada, J. F., s. Tipton, W. R. et al. 199
- Southorn, P., s. Gelb, A. W. et al. 187
- Spall, R. D., s. Kuttan, R. et al. 333
- Stanislas-Leguern, G., s. Arnoux, A. et al. 137
- Summer, W. R., s. Wise, R. A. et al. 175
- Teculescu, D. B., Pino, J., Peslin, R.: Composite Flow-Volume Curves Matched at Total Lung Capacity in the Study of Density Dependence of Maximal Expiratory Flows 127
- Tipton, D. A., s. Boyle, J. III 255
- Tipton, W. R., Nelson, H. S., Souhrada, J. F., Morris, H. G., Jacobson, K. W.: Dynamics of Isoproterenol Subsensitization in Guinea Pig Airway Smooth Muscle. Comparison of Tissue cAMP Levels and Airway Smooth Muscle Relaxation 199
- Tonnel, A. B., s. Voisin, C. et al. 17
- Toomes, H., Vogt-Moykopf, I., Heller, W. D., Ostertag, H.: Measurement of Mucociliary Clearance in Smokers and Non-smokers Using a Bronchoscopic Video-Technical Method 27
- Vargas, E., s. Pasquis, P. et al. 109
- Vizi, E. S., s. Hutás, I. et al. 153
- Vogt-Moykopf, I., s. Toomes, H. et al. 27
- Voisin, C., Tonnel, A. B., Lahoute, C., Robin, H., Lebas, J., Aerts, C.: Bird Fancier's Lung: Studies of Broncho-Alveolar Lavage and Correlations with Inhalation Provocation Tests 17
- Williams, M. H. Jr.: Editorial 1
- Williams, M. H. Jr.: Why Do the Airways Contain Smooth Muscle? (Editorial) 291
- Winkle, R., s. Guilleminault, C. et al. 275
- Wise, R. A., Robotham, J. L., Summer, W. R.: Effects of Spontaneous Ventilation on the Circulation (Review) 175

Title and Key-Word Index

Note: Book reviews are listed below under the heading "Books"

- (a-A)PCO₂ 187
- (A-a)PO₂ 187
- Air-Fluid Levels Within Lung Bullae Associated with Pneumonitis. D. A. Mahler, B. J. Gerstenhaber, N. D. D'Esopo 163
- Airway function 220
 - obstruction 3
 - resistance 220
- Responsiveness of Chronic Smokers to Increased Lung Volume and to a Bronchodilator. E. H. Schlenker, M. J. Jaeger 81
- Air vs helium breathing 127
- Altitude 109
- Alveolar-Arterial PCO₂ Differences and Diffusion Limitation. P. Mertens 101
- Alveolar basement membrane 333
 - extracellular matrix 333
- Aminophylline 243
- An Analysis of Exercise as a Stimulus for the Production of Airway Obstruction (Review). E. R. McFadden Jr. 3
- Asbestos 323
- Aspergillosis 43
- Assessment of Airway Function During Assisted Ventilation. M. H. Lavietes, D. F. Rochester 219
- Asthma 3, 35
 - treatment 243
- Beta adrenergic agonists 199
- The Biochemical Properties of the Pulmonary Circulation (Review). J. A. Pang, D. M. Geddes 231
- Bird Fancier's Lung: Studies of Broncho-Alveolar Lavage and Correlations with Inhalation Provocation Tests. C. Voisin, A. B. Tonnel, C. Lahoute, H. Robin, J. Lebas, C. Aerts 17
- Books
 - Airway Reactivity. F. E. Hargreave, ed. (reviewed by M. H. Williams, Jr.) 289
 - Asthma. H. Herzog, ed. (reviewed by M. H. Williams, Jr.) 288
 - Biochemistry of Normal and Pathological Connective Tissues. A. M. Robert, L. Robert, eds. (reviewed by R. G. Crystal) 114
 - Breathing, Speech and Song. D. F. Proctor (reviewed by M. H. Williams, Jr.) 50
 - Coccidioidomycosis: A Text. D. A. Stevens, ed. (reviewed by H. Abeles) 173
 - Diagnostic Techniques in Pulmonary Disease, part I. M. A. Sackner, ed. (reviewed by M. H. Williams, Jr.) 173
 - Diagnostic Techniques in Pulmonary Disease, part II. M. A. Sackner, ed. (reviewed by M. H. Williams, Jr.) 348
 - Disorder of the Respiratory System, 2nd edn. G. Cumming, S. J. Semple. (reviewed by J. Reichel) 346
 - Pulmonary Circulation in Health and Disease. G. Cumming, G. Bonsignore, eds. (reviewed by M. H. Williams, Jr.) 174
 - Pulmonary Disease Review, vol. 1. R. C. Bone, ed. (reviewed by A. Schechter) 347
 - Pulmonary Embolism. J. Widimsky, ed. (reviewed by M. H. Williams, Jr.) 49
 - Pulmonary Embolism. W. G. Wolfe, D. C. Sabiston, Jr. (reviewed by M. H. Williams, Jr.) 113
 - Regulation of Breathing. T. F. Hornbein, ed. (reviewed by M. H. Williams, Jr.) 290
 - The Chest. R. Des Prez, ed. (reviewed by M. H. Williams, Jr.) 347
- Bronchial Hyperreactivity to Inhaled Histamine in Patients with Farmer's Lung. S. Mönkäre, T. Haahtela, M. Ikonen, L. A. Laitinen 145
- Bronchial muscle 153
 - reactivity 145
- Bronchoalveolar lavage 17, 91, 323
- Bronchodilator 81
- Bullae 163
- Carbon dioxide 101
- Cardio-vascular change 275
- Cellular and Humoral Components of Bronchoalveolar Lavage in the Sheep. M. Rola-Pleszczynski, P. Sirois, R. Bégin 91
- Chest wall 187
- Children 275
- Circulating substances 231
- Clinical implications 231
- Comparative Effect of Epinephrine and Aminophylline in the Treatment of Asthma. D. Appel, C. Shim 243
- Compliance 255
- Composite Flow-Volume Curves Matched at Total Lung Capacity in the Study of Density Dependence of Maximal Expiratory Flows. D. B. Teculescu, J. Pino, R. Peslin 127
- CO₂ rebreathing 265

- A Critique of Dosing Strategies for Beta-2 Adrenergic Agents and Theophylline (Review). J. W. Jenne 295
- Cyclic AMP 323
- nucleotides 199
- Diabetes 43
- Diabetic Ketoacidosis and Invasive Aspergillosis. J. N. Grizzanti, A. Knapp 43
- Diaphragmatic EMG in Studies of Inspiratory "Off-Switch" Threshold in Humans. E. Önal, M. Lopata, C. S. Garrard 265
- Diffusing capacity 109
- Diffusion 101
- Dynamics of Isoproterenol Subsensitivity in Guinea Pig Airway Smooth Muscle. Comparison of Tissue cAMP Levels and Airway Smooth Muscle Relaxation. W. R. Tipton, H. S. Nelson, J. F. Souhrada, H. G. Morris, K. W. Jacobson 199
- Early Biochemical Reactions in the Lung of Sheep Exposed to Asbestos: Evidence for Cyclic AMP Accumulation in Bronchoalveolar Lavage Fluids. I. Lemaire, P. Sirois, M. Rola-Pleszczynski, S. Massé, R. Bégin 323
- Effect of General Anaesthesia on Respiratory Function (Review). A. W. Gelb, P. Southorn, K. Rehder 187
- Effects of Spontaneous Ventilation on the Circulation (Review). R. A. Wise, J. L. Robotham, W. R. Summer 175
- The Effect of the Minimal Deflation Pressure on Lung Mechanics in Isolated Rabbit Lungs. J. Boyle III, A. J. Mautone, D. A. Tipton, E. J. Siems, D. W. Boyle 255
- Endothelium 231
- Epinephrine 243
- Exercise 3
- Farmer's lung 145
- Fetus 53
- FRC 187
- Hemoglobin 109
- Highland natives 109
- Histamine 153
- Hypersensitivity pneumonitis 17
- Immunocompetent Cells and Delayed Hypersensitivity Reaction in Sarcoidosis. A. Arnoux, G. Stanislas-Leguern, J. Marsac, J. Chretien 137
- Immunodeficiency 43
- Indicator wash-out 255
- Influence of Hemoglobin Concentration on Lung Diffusing Capacity for CO at High Altitude. P. Pasquis, P. Denis, M. F. Hellot, R. Lefrançois, E. Vargas 109
- Inhalation provocation test 17
- Inspiratory "off-switch" threshold 265
- time 265
- Intrapulmonary shunt 187
- Lung 53, 101
- basement membrane 333
- biopsy 23
- collagen 333
- compliance 187
- defense 91
- extracellular matrix 333
- innervation 315
- volume 81
- Lymphocytes 137
- Matching of air and helium curves 127
- Mathematical model 101
- Maximal expiratory flow 127
- Measurement of Mucociliary Clearance in Smokers and Non-smokers Using a Bronchoscopic Video-Technical Method. H. Toomes, I. Vogt-Moykopf, W. D. Heller, H. Oster-tag 27
- Monocytes 137
- Morphometry of Pulmonary Veins in Man. K. Horsfield, W. I. Gordon 211
- Mucociliary clearance 27
- Nonadrenergic inhibition 315
- Inhibitory Innervation of the Lung (Review). J. B. Richardson 315
- Non-smokers 27
- Opening pressures 255
- Editorial. M. H. Williams Jr. 1
- Open Lung Biopsy in Diffuse Pulmonary Disease. J. Hasse, A. Perruchoud, P. Dalquen, H. Herzog, E. Grädel 23
- The Pathogenesis of Radiation-Induced Lung Damage. N. J. Gross 115
- Perspectives of Fetal Lung Development (Review). R. H. Perelman, M. J. Engle, P. M. Farrell 53
- PGF_{2α} 153
- Phosphatidylcholine 53
- Phase difference (PD) 81
- Pneumonitis 163
- Preparation and Composition of Alveolar Extracellular Matrix and Incorporated Basement Membrane. R. Kuttan, R. D. Spall, R. C. Duhamel, I. G. Sipes, E. Meezan 333
- Prolonged Survival in Bronchogenic Carcinoma Complicated by Superior Vena Cava Obstruction. A. Schechter, J. Reichel 13

- Prostacyclin 153
Pulmonary circulation 211
— insufficiency 23
— veins 211
Pulsus paradoxus 175
P-V Relationships of lung 255
- Relaxation of Human Isolated Bronchial Smooth Muscle. Role of Prostacyclin and Prostaglandin $F_{2\alpha}$ in Muscle Tone. I. Hutás, P. Hadházy, L. Debreczeni, E. S. Vizi 153
- Regulation of respiration 265
Respiratory distress syndrome 53
— failure 220
— heat loss 3
- A Review of 50 Children with Obstructive Sleep Apnea Syndrome. C. Guilleminault, R. Koberkin, R. Winkle 275
- Sarcoidosis 137
Sheep 323
— lungs 91
- Site of Airway Obstruction in Asymptomatic Asthmatic Children. J. Loke, M. Ganeshanthan, C. R. Palm, E. K. Motoyama 35
- Sleep 275
— apnea syndrome 275
Smokers 27
Smoking 81
Subsensitivity 199
Superior vena cava obstruction, survival 13
Superior vena cava obstruction, treatment 13
Surfactant 53
- Time constant of lung 255
Tracheal smooth muscle 199
Tuberculin anergy 137
- Ventilation and circulation 175
Ventilatory control 187
Video technical method 27
 V/\dot{Q} 187
- Why Do the Airways Contain Smooth Muscle? M. H. Williams Jr. 291